Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-04-24-01** **Date: 26-04-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP,
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads, drains and construction of Culverts at Vinayaka Nagara internal roads and surrounding area in ward no.11
Agency	:	Sri.k. Anil kumar, No.84-L, 2nd Floor, 3rd cross, 4th main, HAL, 3rd Stage, Thippasandra, Bangalore-560075
Customer's Reference	:	BBMP/EE/BTP/WO/52/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	24-04-18
Sample ID No	:	2018-04-24-01 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	24-04-18
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.44	_
2	Finess by Air permeablity method (m^2/kg,Min)	275.6	225m^2/kg, Min
3	Density (gm/cc)	3.13	_
4	Standard Consistency (%)	28.0%	Not specified
5	Initial Setting time	175 minutes	Not less than 30 minutes
6	Final Setting time	280 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1mm	Not more than 10 mm

Note:

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Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-04-24-01** **Date: 22-05-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads, drains and construction of Culverts at Vinayaka Nagara internal roads and surrounding area in ward no.11
Agency	:	Sri.k. Anil kumar, No.84-L, 2nd Floor, 3rd cross, 4th main, HAL, 3rd Stage, Thippasandra, Bangalore-560075
Customer's Reference	:	BBMP/EE/BTP/WO/52/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	24-04-18
Sample ID No	:	2018-04-24-01 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	24-04-18
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm2	Not less than 37 N/mm^2
3	28 Days	56.0N/mm^2	Not less than 53 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-04-24-01** **Date: 26-04-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads, drains and construction of Culverts at Vinayaka Nagara internal roads and surrounding area in ward no.11
Agency	:	Sri.k. Anil kumar, No.84-L, 2nd Floor, 3rd cross, 4th main, HAL, 3rd Stage, Thippasandra, Bangalore-560075
Customer's Reference	:	BBMP/EE/BTP/WO/52/2017-18
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	24-04-18
Sample ID No	:	2018-04-24-01 /02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386.:1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	24-04-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	234	234	1.6	98.4	90-100
3	20 mm	5334	5568	37.1	62.9	30-70
4	10 mm	4788	10356	69.0	31.0	10-35
5	4.75 mm	4354	14710	98.1	1.9	0-5
6	Pan	290	15000	100.0	0	---

Assistant Executive Engineer
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BBMP Bangalore-97

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-04-24-01** **Date: 26-04-18**

Sample ID No : 2018-04-24-01 /02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.4	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.8	
3	Specific Gravity	2.68	_
4	Bulk Density(Loose) (Kg/l)	1.55	_
5	Bulk Density(Compacted) (Kg/l)	1.59	_
6	Water Absorption(%)	0.22	_

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BBMP, Bangalore - 97

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-04-24-01** **Date: 26-04-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads, drains and construction of Culverts at Vinayaka Nagara internal roads and surrounding area in ward no.11
Agency	:	Sri.k. Anil kumar, No.84-L, 2nd Floor, 3rd cross, 4th main, HAL, 3rd Stage, Thippasandra, Bangalore-560075
Customer Reference	:	BBMP/EE/BTP/WO/52/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	24-04-18
Sample ID No	:	2018-04-24-01 /02(b)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	24-04-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	245	245	4.9	95.1	90-100
3	10 mm	2675	2920	58.4	41.6	25-55
4	4.75 mm	1798	4718	94.4	5.6	0-10
5	Pan	282	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-04-24-01** **Date: 26-04-18**

Sample ID No : 2018-04-24-01 /02(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	**11.6**	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	**11.1**	
3	Specific Gravity	**2.66**	_
4	Bulk Density(Loose) (Kg/l)	**1.51**	_
5	Bulk Density(Compacted) (Kg/l)	**1.55**	_
6	Water Absorption(%)	**0.25**	_
7	Aggregate crushing Value(%)	**22.5**	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	**21.9**	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL
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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2018-04-24-01** **Date: 26-04-18**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads, drains and construction of Culverts at Vinayaka Nagara internal roads and surrounding area in ward no.11

Agency : Sri.k. Anil kumar, No.84-L, 2nd Floor, 3rd cross, 4th main, HAL, 3rd Stage, Thippasandra, Bangalore-560075

Customer's Reference : BBMP/EE/BTP/WO/52/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 24-04-18

Sample ID No : 2018-04-24-01 /03

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 24-04-18

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	82	82	8.2	91.8	90-100	90-100	90-100	95-100
3	2.36 mm	165	247	24.7	75.3	60-95	75-100	85-100	95-100
4	1.18 mm	177	424	42.4	57.6	30-70	55-90	75-100	90-100
5	600 micron	182	606	60.6	39.4	15-34	35-59	60-79	80-100
6	300 micron	177	783	78.3	21.7	5-20	8-30	12-40	15-50
7	150 micron	134	917	91.7	8.3	0-10	0-10	0-10	0-15
8	Pan	83	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2018-04-24-01** **Date: 26-04-18**

Sample ID No : 2018-04-24-01 /03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.85	–
2	Specific Gravity	2.58	–
3	Material finer than 75 micron(%)	4.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2018-04-24-01** **Date: 25-04-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads, drains and construction of Culverts at Vinayaka Nagara internal roads and surrounding area in ward no.11
Agency	:	Sri.k. Anil kumar, No.84-L, 2nd Floor, 3rd cross, 4th main, HAL, 3rd Stage, Thippasandra, Bangalore-560075
Customer's Reference	:	BBMP/EE/BTP/WO/52/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	24-04-18
Sample ID No	:	2018-04-24-01 /04
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	24-04-18

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.392	532	628	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.615	548	656	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.887	572	681	20.0%	Satisfactory	Satisfactory

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Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	**CP-2018-04-24-01** **Date: 28-04-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads, drains and construction of Culverts at Vinayaka Nagara internal roads and surrounding area in ward no.11
Agency	:	Sri.k. Anil kumar, No.84-L, 2nd Floor, 3rd cross, 4th main, HAL, 3rd Stage, Thippasandra, Bangalore-560075
Customer's Reference	:	BBMP/EE/BTP/WO/52/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	24-04-18
Sample ID No	:	2018-04-24-01 /06
Sample Type /Size	:	100mm Thick Precast Cover Slab
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	24/04/2018

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.41	100.49	1.310	4465	79.4	17.8	16.5	20.7
2	Cover Slab-2	75.55	100.51	1.319	4482	82.6	18.4	17.1	21.4
3	Cover Slab-3	75.49	100.49	1.329	4475	78.9	17.6	16.4	20.5

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TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	**CP-2018-04-24-01** **Date: 28-04-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads, drains and construction of Culverts at Vinayaka Nagara internal roads and surrounding area in ward no.11
Agency	:	Sri.k. Anil kumar, No.84-L, 2nd Floor, 3rd cross, 4th main, HAL, 3rd Stage, Thippasandra, Bangalore-560075
Customer's Reference	:	BBMP/EE/BTP/WO/52/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	24-04-18
Sample ID No	:	2018-04-24-01 /05
Sample Type /Size	:	250mm Thick Precast Cover Slab
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	24/04/2018

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	150.85	250.47	3.754	17869	394.9	22.1	22.1	27.6
2	Cover Slab-2	150.66	250.42	3.795	17824	396.3	22.2	22.2	27.8
3	Cover Slab-3	150.48	250.52	3.758	17781	391.5	22.0	22.0	27.5

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-04-30-01** **Date: 03/05/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads, drains and construction of Culverts at Vinayaka Nagara internal roads and surrounding area in ward no.11

Agency : Sri.k. Anil kumar, No.84-L, 2nd Floor, 3rd cross, 4th main, HAL, 3rd Stage, Thippasandra, Bangalore-560075

Customer's Reference : BBMP/EE/BTP/WO/52/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 30-04-18

Sample ID No : 2018-04-30-01 /01

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 03/05/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	26/04/2018	03/05/2018	150.32 X 150.34 X 150.35	22599	8.324	388.7	17.2	17.1
2	Drain Concrete	M20	26/04/2018	03/05/2018	150.34 X 150.38 X 150.39	22608	8.342	393.4	17.4	
3	Drain Concrete	M20	26/04/2018	03/05/2018	150.29 X 150.41 X 150.30	22605	8.322	379.8	16.8	

Note:
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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-04-30-01** **Date: 24/05/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads, drains and construction of Culverts at Vinayaka Nagara internal roads and surrounding area in ward no.11

Agency : Sri.k. Anil kumar, No.84-L, 2nd Floor, 3rd cross, 4th main, HAL, 3rd Stage, Thippasandra, Bangalore-560075

Customer's Reference : BBMP/EE/BTP/WO/52/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 30-04-18

Sample ID No : 2018-04-30-01 /02

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 24/05/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	26/04/2018	24/05/2018	150.30 X 150.32 X 150.35	22593	8.324	515.1	22.8	23.1
2	Drain Concrete	M20	26/04/2018	24/05/2018	150.30 X 150.38 X 150.31	22602	8.352	535.7	23.7	
3	Drain Concrete	M20	26/04/2018	24/05/2018	150.23 X 150.21 X 150.33	22566	8.302	514.5	22.8	

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-05-02-02** **Date: 04/05/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads, drains and construction of Culverts at Vinayaka Nagara internal roads and surrounding area in ward no.11

Agency : Sri.k. Anil kumar, No.84-L, 2nd Floor, 3rd cross, 4th main, HAL, 3rd Stage, Thippasandra, Bangalore-560075

Customer's Reference : BBMP/EE/BTP/WO/52/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 02-05-18

Sample ID No : 2018-05-02-02 /01

Customer ID : Cement Concrete Concretre

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 04/05/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Concretre	M20	27/04/2018	04/05/2018	149.63 X 151.22 X 151.85	22627	8.156	414.1	18.3	18.1
2	Cement Concrete Concretre	M20	27/04/2018	04/05/2018	150.74 X 149.86 X 150.00	22590	8.175	393.1	17.4	
3	Cement Concrete Concretre	M20	27/04/2018	04/05/2018	149.86 X 150.47 X 150.32	22549	8.187	417.2	18.5	

Note:
The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 90 days from the date of issue of test certificate

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore-97

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-05-02-02** **Date: 25/05/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads, drains and construction of Culverts at Vinayaka Nagara internal roads and surrounding area in ward no.11

Agency : Sri.k. Anil kumar, No.84-L, 2nd Floor, 3rd cross, 4th main, HAL, 3rd Stage, Thippasandra, Bangalore-560075

Customer's Reference : BBMP/EE/BTP/WO/52/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 02-05-18

Sample ID No : 2018-05-02-02 /02

Customer ID : Cement Concrete Concretre

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 25/05/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Concretre	M20	27/04/2018	25/05/2018	149.52 X 151.56 X 150.76	22661	8.149	514.4	22.7	23.0
2	Cement Concrete Concretre	M20	27/04/2018	25/05/2018	151.42 X 150.99 X 150.79	22863	8.199	546.4	23.9	
3	Cement Concrete Concretre	M20	27/04/2018	25/05/2018	150.88 X 150.85 X 149.86	22760	8.176	512.1	22.5	

Note:
The results pertain to the samples received and tested.
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Assistant Executive Engineer
Vidyaranyapura sub Division
BBMP, Bangalore

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****